

We Claim:

1. A method for controlling subterranean termites of the family Rhinotermitidae comprising applying to said termites, to the locus of said termites, to material susceptible to said termite infestation, or to the locus of material susceptible to said termite infestation an amount of *Paecilomyces* spp. effective to infect and kill said termites.

2. The method of Claim 1, wherein said subterranean termites are of a species selected from the group consisting of *Coptotermes formosanus* Shiraki, *Reticulitermes flavipes*, *Reticulitermes virginicus*, and *Reticulitermes hesperus*.

3. The method of Claim 1, wherein said *Paecilomyces* spp. is *P. fumosoroseus*.

4. The method of Claim 1, wherein said *Paecilomyces* spp. is *P. javanicus*.

5. The method of Claim 1, wherein said *Paecilomyces* spp. is applied in a form selected from the group consisting of spores, conidia, and mycelia.

6. The method of Claim 1, wherein said *Paecilomyces* spp. is applied predominantly in the form of dessication tolerant blastospores.

7. The method of Claim 1, wherein said material susceptible to said termite infestation is a termite bait station.

8. The method of Claim 1, wherein said material susceptible to said termite infestation is a dead or living plant.

9. The method of Claim 1, wherein said material susceptible to said termite infestation is a living tree.

10. The method of Claim 1, wherein said material susceptible to said termite infestation is a wood-containing structure.

11. A composition for controlling subterranean termites of the family Rhinotermitidae comprising an amount of *Paecilomyces* spp. effective to infect and kill said termites and a suitable vehicle or carrier.

12. The composition of Claim 11, wherein said *Paecilomyces* spp. is *P. fumosoroseus*.

13. The composition of Claim 11, wherein said *Paecilomyces* spp. is *P. javanicus*.

14. The composition of Claim 11, wherein said *Paecilomyces* spp. is in the form selected from the group consisting of spores, conidia, and mycelia.

15. The composition of Claim 11, wherein said *Paecilomyces* spp. is predominantly in the form of dessication tolerant blastospores.

16. The composition of Claim 11, wherein said composition further comprises a termite aggregation attractant.

17. The composition of Claim 11, wherein said composition is in a form selected from the group consisting of wettable powder, dust, granule, solution, emulsifiable concentrate, emulsion, suspension concentrate, and spray.

18. The composition of Claim 11, wherein said composition is a spray.

19. The composition of Claim 11, wherein said composition is a dust.

20. The composition of Claim 11, wherein said composition is an emulsifiable concentrate.

21. The composition of Claim 11, wherein said composition is a bait.